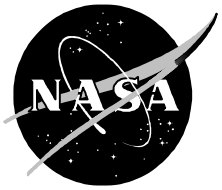
VERSION DESCRIPTION DOCUMENT FOR THE NASA SUPPLY MANAGEMENT SYSTEM (NSMS)

Release 7.1.0

PrISMS Contract

July 2002



National Aeronautics and
Space Administration

George C. Marshall Space Flight Center
Huntsville, AL 35812

VERSION DESCRIPTION DOCUMENT
FOR THE
NASA SUPPLY MANAGEMENT SYSTEM (NSMS)
RELEASE

Approved by

_____

Sheila Fogle Date
Consolidation Center
Project Manager

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Nikita Zurkin Date
Program Functional Manager

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

July 2002

1 INTRODUCTION

1.1 Identification of the Release

This software release is identified as the National Aeronautics and Space Administration (NASA) Supply Management System (NSMS), Version Description Document (VDD), Release 7.1.0.

The release has an effective date of August 31, 2002. Support of the previous release expires on the implementation date of release 7.1.0.

1.2 Purpose of the Release

This release includes system modifications as specified in Sections 2.0 and 3.0 of this document.

1.3 Scope of the Release

This release provides the functional and technical user of NSMS with changes to the contents and status of the application NSMS, Version 7.1.0, including the following:

- Validation procedures to ensure the reliability of those changes.
- References to other documents affected by this release.
- Detail software installation procedures.

1.4 Contact Points

Questions regarding the functional and/or technical aspects for NSMS, as well as the installation of this release, should be directed to:

Pam Leak at telephone number (256)544-1388 or
by e-mail Pam.Leak@msfc.nasa.gov
The fax number is (256)544-1836.

2 FUNCTIONAL INFORMATION

2.1 FUNCTIONAL CHANGES

This release incorporates Requirement Changes (RC) approved by the Configuration Control Board (CCB).

This release includes the necessary modules to incorporate RC 945, 1002 and 1005 approved by the CCB. Two discrepancies (DR 883 and 990) are included in this release.

1. PROBLEM – Create Issue Directive by Part Number 1620# - 883

When entering a part number for a discontinued asset, the old asset (discontinued) key is displayed instead of the new asset record.

ACTION – Correct process to display the asset that is not discontinued.

2. PERFORMANCE – Completed Inventories Report 1620# - 945

Currently, prior to running an inventory report, all of the inventory Id's and type of inventory (complete or partial) have to be collected and placed into the report parameters to run the inventory report. This performance/design provides capability to generate a Completed Inventory Report by just entering a desired date range.

ACTION – Provide a report of Completed Inventories based on a selected date range. Include in the report the Run-Id, Inventory Type, Run Status, and the Adjustment date.

3. PROBLEM - (Asset Scan) 1620# - 990

An error is being returned when no data is retrieved to display in the asset scan process. This error also occurs when searching by an NSN greater than the last NSN for the domain. The error is being returned when no active assets are found to display after the NSN being searched for.

ACTION – Correct the process to return appropriate data, message when end of data is reached.

4. PERFORMANCE - Inventory Counts by Federal Stock Class 1620# - 1002

Currently the Inventory Count process does not allow an inventory to be built by the Federal Stock Class. FSC is to the 3rd and 4th digit of Federal Stock Group. On some stock groups this forces the Center to sometimes build a very large Lot.

ACTION – Either add a new type of inventory or modify the FFG to be an optional 4 characters to allow for the 3rd and 4th digits of the NSN.

5. PERFORMANCE – CATALOG (Expand Catalog Search Fields In NSMS) 1620# - 1005

NASA (STENNIS) Propulsion Test Division is requesting 10 new search files be added to the Catalog for enhancement of NSMS/NOSC as the main logistics system. These 10 fields are needed to make NSMS/NOSC more technical, user friendly.

ACTION – Add to NSMS/NOSC catalog search fields in combination with Generic and Technical Name searches the following new fields: 1) Last Service, 2) Maximum Allowable Pressure, 3) MAWP Units, 4) Size, 5) Size Units, 6) Maximum Working Temperature, 7) minimum Working Temperature, 8) Temperature Units, 9) Manufacturer (with Name not Cage Code), 10) Serial Number.

2.2 FUNCTIONAL INTERFACES

The release has no functional impact on interfaces with other NASA legacy Agencywide Administrative Systems or configuration items.

2.3 CRITICAL ISSUES

No critical issues exist for this release.

2.4 AFFECTED DOCUMENTS

The only document affected by this release is the NSMS-UOG-10, NSMS User and Operations Guide (UOG) dated May 2002.

2.5 APPLICATION SYSTEM ADMINISTRATION

Enhancement 945

1. Add the Completed Inventory Report (inv1619) to the Online Tasks Maintenance (TASKS) in the NS domain with:

   FUNCTION: A
   TASK TYPE: P
   Task ID: NSPTS161
   Press <enter>

   Enter: Command name: INV1619
   Type: REPORTS
   Title: COMPLETED INVENTORY REPORT
   Secured: N
   Function: blank
   Comment: N

2. Add Environmental Protection Agency Report to the Batch Task Maintenance (BATCHTSK) in the NS domain with:

   Action: A
   Task ID: NSPRS161
   Task name: COMPLETED INVENTORY REPORT
   Parameter Input Module: NSSFS161
   Number of work files:
   Report ID: NSRBS161
   Name: COMPLETED INVENTORY REPORT
   File No: 1

3. Add the Environmental Protection Agency Report to the Batch Job Maintenance (BATCHJOB) in the NS domain with:

   Job ID: INV1619
   Job Name: COMPLETED INVENTORY REPORT
   Type of scheduling: U (User Initiated)
   Type of submission: I (Immediate)
   Task ID: NSPRS161

   Specify Copies, Output Type, and Output Option data for:
   Report ID: NSRBS161
   Report Name: COMPLETED INVENTORY REPORT
   File No: 1

4. Using the Online Tasks Maintenance (TASKS) process, modify the Headquarters Reports menu.

FUNCTION: M
Task ID: NSMNHRPT

Add NSPTS161 to the menu.

5. Add the appropriate security (SECURITY) to the users for the appropriate task. Remember to refresh the settings for the current session using the INIT command.

6. Add the Change Catalog Detail (CATCHG) to the Online Tasks Maintenance (TASKS) in the NS domain with:
   FUNCTION: A
   TASK TYPE: P
   Task ID: NSPTCAPR
   Press <enter>

   Enter: Command name:CATCHG
   Type: CATALOG
   Title: CHANGE CATALOG DETAIL
   Secured: N
   Function: blank
   Comment: N

7. Add the Catalog Scan (Component Design Data) (CATPROP) to the Online Tasks Maintenance (TASKS) in the NS domain with:
   FUNCTION: A
   TASK TYPE: P
   Task ID: NSPTCAS2
   Press <enter>

   Enter: Command name:CATPROP
   Type: CATALOG
   Title: CHANGE SCAN (Component Design Data)
   Secured: N
   Function: blank
   Comment: N

8. Add the Serial Trace Scan (Component Design Data) (SERIAL) to the Online Tasks Maintenance (TASKS) in the NS domain with:
   FUNCTION: A
   TASK TYPE: P
   Task ID: NSPTCAS3
   Press <enter>

Enter: Command name:SERIAL
Type: CATALOG
Title: SCAN by Serial Number
Secured: N
Function: blank
Comment: N

9. Add the Lot-Batch Trace Scan (Component Design Data) (LOT) to the Online Tasks Maintenance (TASKS) in the NS domain with:
FUNCTION: A
TASK TYPE: P
Task ID: NSPTCAS4
Press <enter>

Enter: Command name:LOTBATCH
Type: CATALOG
Title: Scan by Lot-Batch
Secured: N
Function: blank
Comment: N

10. Modify the QUERY CATALOG INFORMATION Menu by adding Scan by Serial Number using the TASKS process.
FUNCTION: M
TASK TYPE: P
Task ID: NSMNCRIQ

Press <enter> to receive the existing processes on the Query Catalog Information Menu. Type **ADD** on the Command (CMD) line and press <enter>.
Select NSPTCAS2, NSPTCAS3 and NSPTCAS4 by placing an X next to the processes. Enter a period (.) to display the processes selected. Pressing <enter> will return to the main Task screen.

11. Modify the Maintain Catalog Detail Menu by adding the Change Catalog Detail using the TASKS process.
FUNCTION: M
TASK TYPE: P
Task ID: NSMNMCAD

Press <enter> to receive the existing processes on the Maintain Catalog Detail Menu. Type **ADD** on the Command (CMD) line and press <enter>.
Select NSPTCAPR by placing an X next to the process. Enter a period (.) to display the processes selected. Pressing <enter> will return to the

main Task screen.

12. Add the appropriate security (SECURITY) to the users for the appropriate task. Remember to refresh the settings for the current session using the INIT command.

3 TECHNICAL INFORMATION

This section includes details regarding technical system interfaces, data dictionary changes, software object changes, and database administration activities.

3.1 TECHNICAL SYSTEM INTERFACES

This NSMS release has a technical impact on interfaces with other NASA legacy Agencywide Administrative Systems or configuration items.

3.2 DATA DICTIONARY CHANGES

Refer to Appendix D, Section 4.0, for the data dictionary changes in this release.

3.3 SOFTWARE OBJECT CHANGES

Modules affected by this release are included in Appendix D, Section 2.2.

3.4 DATABASE ADMINISTRATION

This section describes the database administration activities for installation of this release.

3.4.1 Release Dataset Names

Refer to Appendix D, Introduction section, for the release dataset names.

3.4.2 Inventory of Objects

Refer to Appendix D, Paragraph 2.1, for an inventory of Natural object types.

3.4.3 Storage Considerations

The changes represented by this release should not affect storage requirements.

3.4.4 Installation Procedures

Refer to Appendix D, Installation Instructions for NSMS Software Release 7.1.0 for detailed software installation procedures.

3.5 OPERATIONAL PREPARATION

Refer to the procedure described in Appendix D for assistance in preparing for proper installation and operational use of the release.

4 KNOWN AND OPEN PROBLEMS

There are no known or open problems related to this release.

APPENDIX A

LIST OF ACRONYMS

ADP	Automated Data Processing
CCB	Configuration Control Board
CCR	Change Control Request
DR	Discrepancy Report
IFMP	Integrated Financial Management Program
JCL	Job Control Language
JIT	Just In Time
NACC	NASA Automated Data Processing (ADP) Consolidation Center
NASA	National Aeronautics and Space Administration
NSMS	NASA Supply Management System
NSN	National Stock Number
RC	Requirements Change
UOG	User and Operations Guide
VDD	Version Description Document

APPENDIX B

GLOSSARY

This document has no terms to be defined.

APPENDIX C

FUNCTIONAL CHANGE VALIDATION PROCEDURES

1. PROBLEM – Create Issue Directive by Part Number 1620# - 883

When entering a part number for a discontinued asset, the old asset (discontinued) key is displayed instead of the new asset record.

ACTION – Correct process to display the asset that is not discontinued.

VALIDATION

1. Using the Add Change or Delete Catalog Detail (CATADCHG) process, add a catalog record. Note the part number being added. This record will be known as **Catalog1**.
2. Using the Add, Change or Delete Asset (ADCHGAST) process, add a store stock asset record and a standby stock asset for **Catalog1**. Process to completion. The store stock asset will be known as **Asset1**. The standby stock asset will be known as **Asset2**.
3. Using the Inventory Adjustment (INVADJST) process, increase the quantity of **Asset1**. Process to completion.
4. Using the Inventory Adjustment (INVADJST) process, decrease the quantity of **Asset1** to zero. Process to completion.
5. Using the Add, Change or Delete Asset (ADCHGAST) process, discontinue **Asset1**. Process to completion.
6. Using the Create Issue Directive (ISSUEPRE) process, issue some quantity by entering the part number for **Catalog1**. Verify that **Asset2** is displayed in the NSN, Stock Status Code and Stock Ownership. No selection screen will be presented because only one (1) asset exists for that part number. Process to completion.
7. Using the Monitor Transaction (MONTRANS) process, verify the asset key is for **Asset2**.
8. Using the Add, Change or Delete Asset (ADCHGAST) process, add another store stock asset for **Catalog1**. Process to completion. This asset will be known as **Asset3**.
9. Using the Create Issue Directive (ISSUEPRE) process, issue some quantity by entering the part number for **Catalog1**. A selection screen will be presented displaying the discontinued and active assets. Select an active asset to issue. Process to completion.
10. Using the Monitor Transaction (MONTRANS) process, verify the asset key is for the asset selected in the previous step.

11. Using the Receive Due-In Not-Due-In (DINOTDI) process, enter the part number for **Catalog1.** Select **Asset2** to receive against. Verify **Asset2** is returned to the main receipt screen. Process to completion.

2. PERFORMANCE – Completed Inventories Report 1620# - 945

Currently, prior to running an inventory report, all of the inventory Id's and type of inventory (complete or partial) have to be collected and placed into the report parameters to run the inventory report. This performance/design provides capability to generate a Completed Inventory Report by just entering a desired date range.

ACTION – Provide a report of Completed Inventories based on a selected date range. Include in the report the Run-Id, Inventory Type, Run Status, and the Adjustment date.

VALIDATION

1. Using the Add Change or Delete Catalog (CATADCHG) process, add a catalog record.
2. Using the Add, Change or Delete Asset (ADCHGAST) process, add a store stock, a program stock and a standby stock asset for the Catalog. Add a bin id to the assets.
3. Using the Inventory Adjustment (INVADJST) process, increase the quantity for the assets. Process to completion.
4. Using the Process Inventory Counts (INVCTSMM) process, build an inventory control record. Enter option 1, a unique Run-Id, and 'FSA' as the Inventory Type. Enter the values for all the assets created above. Process to completion.
5. Using the Process Inventory Counts (INVCTSMM) process, execute the batch job to Produce Bin Location Report (option 2) for the above Run Id. Process to completion.
6. Using the Process Inventory Counts (INVCTSMM) process, execute the batch job to Build the Inventory lot (option 3) for the above Run Id. Process to completion.
7. Using the Process Inventory Counts (INVCTSMM) process, execute the batch job to Produce the Warehouse Data Collection Report (option 4) for the above Run Id. Process to completion.
8. Using the Process Inventory Counts (INVCTSMM) process, execute the Process Warehouse Counts (option 5) for the above Run Id. Enter quantities different than the asset quantities. Process to completion.
9. Using the Inventory Counts Main Menu (INVCTSMM) process, execute the Perform Dummy Adjustment (option 6) for the above Run Id. Process to completion.

10. Using the Inventory Counts Main Menu (INVCTSMM) process, execute the Perform Final Adjustment (option 7) for the above Run Id. Process to completion.
11. Using the Completed Inventory Report (INV1619) process, submit the batch job. Verify the completed inventory appears on the report.

3. PROBLEM - (Asset Scan) 1620# - 990

An error is being returned when no data is retrieved to display in the asset scan process. This error also occurs when searching by an NSN greater than the last NSN for the domain. The error is being returned when no active assets are found to display after the NSN being searched for.

ACTION – Correct the process to return appropriate data, message when end of data is reached.

Special Note: If the last NSN on the Asset file is all nines for the domain you are processing, you may use a different domain.

VALIDATION

1. Using the Scan Asset (SCANASET) process, determine the last National Stock Number (NSN) on file. Enter an NSN greater than the last NSN found in the Search-For NSN field and press <enter>. The message "111 – Past end of file, starting over at beginning" should be returned.
2. Using the Catalog Scan (CATSCAN) process, determine the last NSN value on file and the last Manufacturer Part Number value on file. In addition, determine an arbitrary part number which is not on file.
3. Using the Add Change or Delete Catalog Detail (CATADCHG) process, add a catalog record for an NSN greater than the last NSN found on file. This catalog record will be known as **Catalog1**. Note: if the last NSN value on the catalog file is all nines, you may skip this step, and the all-nines catalog record will be known as **Catalog1**.
4. Using the Add Change or Delete Catalog Detail (CATADCHG) process, add one or more part number values to **Catalog1**. Be sure to add one part number which is greater than the maximum Manufacturer Part Number value on file determined earlier. In addition, make sure all part number values on **Catalog1** have associated Commercial and Government Entity (CAGE) codes. Make note of all part number values on Catalog1.
5. Using the Add, Change or Delete Asset (ADCHGAST) process, add a store stock asset record and a standby stock asset record for **Catalog1**. Process to completion. The store stock asset will be known as **Asset1**. The standby stock asset will be known as **Asset2**.
6. Using the Scan Asset (SCANASET) process, enter the NSN of **Asset1** in the Search-For NSN field to verify **Asset1** and **Asset2**.

7. Using the Scan Asset (SCANASET) process, enter the last Manufacturer Part Number value on file in the Search-For Part Number field to verify **Asset1** and **Asset2**.
8. Using the Inventory Adjustment (INVADJST) process, increase the quantity of **Asset1**. Process to completion.
9. Using the Inventory Adjustment (INVADJST) process, decrease the quantity of **Asset1** to zero. Process to completion.
10. Using the Add, Change or Delete Asset (ADCHGAST) process, discontinue or delete all assets for **Catalog1,** including **Asset1** and **Asset2**. Process to completion.
11. Using the Scan Asset (SCANASET) process, enter the NSN of **Asset1** in the Search-For NSN field. Verify the message "111 – Past end of file, starting over at beginning".
12. Using the Scan Asset (SCANASET) process, enter the maximum part number value on **Catalog1** in the Search-For Part Number field. Verify that **Asset1** is discontinued and that **Asset2** is no longer on file. Press <Enter>. Verify the message: "242 – No active record found on file" and the prompt "2 – Enter part number to select NSN."
13. In response to the prompt "2 – Enter part number to select NSN", enter the earlier-determined arbitrary part number which is not on file. Verify the message: "242 – No record found on file" and the prompt "3 – Enter part number to select NSN."
14. In response to the prompt "3 – Enter part number to select NSN", blank out the part number value. Press <Enter>. Verify the message: "027 – Enter search value or press enter to continue."
15. Using the Scan Asset (SCANASET) process, type the maximum part number value on **Catalog1** in the Search-For Part Number field, interspersed with one or more special characters. Special characters include blanks, punctuation marks, mathematical operators, and symbols. Press <Enter>. Verify that **Asset1** is discontinued and that **Asset2** is no longer on file, along with the message: "013 – End of Data" and the on-screen annotation: "** Special Characters in Part Number **". Press <Enter>. Verify the message "242 – No active record found on file" and the prompt "2 – Enter part number to select NSN."
16. In response to the prompt "2 – Enter part number to select NSN", blank out the part number value. Press <Enter>. Verify the message: "027 – Enter search value or press enter to continue."

4. PERFORMANCE - Inventory Counts by Federal Stock Class 1620# - 1002

Currently the Inventory Count process does not allow an inventory to be built by the Federal Stock Class. FSC is to the 3rd and 4th digit of Federal Stock Group. On some stock groups this forces the Center to sometimes build a very large Lot.

ACTION – Either add a new type of inventory or modify the FFG to be an optional 4 characters to allow for the 3rd and 4th digits if the NSN.

VALIDATION

1. Using the Add Change or Delete Catalog (CATADCHG) process, add a non-traceable and a traceable catalog record. The non-traceable record will be known at Catalog1. The traceable record will be known as Catalog2.
2. Using the Add, Change or Delete Asset (ADCHGAST) process, add a store stock, a program stock and a standby stock asset for Catalog1 and Catalog2. Add a bin id to the assets.
3. Using the Inventory Adjustment (INVADJST) process, increase the quantity for the assets. Process to completion.
4. Using the Process Inventory Counts (INVCTSMM) process, build an inventory control record. Enter option 1, a unique Run-Id, and 'FFC' as the Inventory Type. Enter the values for all the assets created above. Enter the option of "O"nly for the traceable field. Process to completion.
5. Using the Process Inventory Counts (INVCTSMM) process, execute the batch job to Produce Bin Location Report (option 2) for the above Run Id. Process to completion.
6. Using the Process Inventory Counts (INVCTSMM) process, execute the batch job to Build the Inventory lot (option 3) for the above Run Id. Process to completion.
7. Using the Process Inventory Counts (INVCTSMM) process, execute the batch job to Produce the Warehouse Data Collection Report (option 4) for the above Run Id. Process to completion.
8. Using the Process Inventory Counts (INVCTSMM) process, execute the Process Warehouse Counts (option 5) for the above Run Id. Enter quantities different than the asset quantities. Process to completion.
9. Using the Process Inventory Counts (INVCTSMM) process, execute the batch job to Produce the Warehouse Data Collection Report (option 4) for the above Run Id. Process to completion.
10. Using the Process Inventory Counts (INVCTSMM) process, execute the Process Warehouse Counts (option 5) for the above Run Id. Enter quantities that match the previous count for the assets. Process to completion.
11. Using the Inventory Counts Main Menu (INVCTSMM) process, execute the Perform Dummy Adjustment (option 6) for the above Run Id. Process to completion.
12. Using the Inventory Counts Main Menu (INVCTSMM) process, execute the Perform Final Adjustment (option 7) for the above Run Id. Process to completion.
13. Using the Monitor Transaction (MONTRANS) process, verify the adjustment (ADJC) transactions.
14. Using the Asset Scan (SCANASET) process, verify the asset quantity and price.

15. Using the Inventory Counts Main Menu (INVCTSMM) process, execute the Produce Inventory Control Report (option 8) for the above Run Id. Process to completion.
16. Using the Inventory Counts Main Menu (INVCTSMM) process, execute the Delete This Inventory (option 9) for the above Run Id. Process to completion.
17. Repeat steps 1 through 15 in order to process step 18.
18. Using the Inventory Counts Main Menu (INVCTSMM) process, execute the Abort This Inventory (option 10) for the above Run Id. Process to completion.
19. Repeat steps 4 through 18 for each type of inventory (excluding FFC inventory type).
20. Repeat steps 4 though 16 for each type of inventory (including FFC inventory type). When repeating the fourth bullet, include the traceable assets in the inventory by entering "Y"es in the Traceable Asset field.
21. Repeat steps 4 though 16 for each type of inventory (including FFC inventory type). When repeating the fourth bullet, exclude the traceable assets in the inventory by entering "N"o in the Traceable Asset field.

5. PERFORMANCE – CATALOG (Expand Catalog Search Fields In NSMS) 1620# - 1005

NASA (STENNIS) Propulsion Test Division is requesting 10 new search files be added to the Catalog for enhancement of NSMS/NOSC as the main logistics system. These 10 fields are needed to make NSMS/NOSC more technical, user friendly.

ACTION – Add to NSMS/NOSC catalog search fields in combination with Generic and Technical Name searches the following new fields: 1) Last Service, 2) Maximum Allowable Pressure, 3) MAWP Units, 4) Size, 5) Size Units, 6) Maximum Working Temperature, 7) minimum Working Temperature, 8) Temperature Units, 9) Manufacturer (with Name not Cage Code), 10) Serial Number.

VALIDATION

1. Using the Add Change or Delete Catalog (CATADCHG) process, add a catalog record.
2. Using the Change Catalog Detail (CATCHG) process, change the NSN by adding data to the new fields. Upon entry into this process, the NSN should be enterable. After entering the NSN, press <enter>. The remainder of the fields should be enterable and the NSN should be protected. The Generic Name, Catalog Index and Technical Name are filled in after a valid NSN is entered. Process to completion.
3. Using the Catalog Scan (Component Design Data) (CATPROP) process, search using each of the following search criteria's: NSN, MANUF PART NUMBER, GENERIC – TECH names, TECH- GENERIC names, LAST

SERVICE, MAWP, SIZE, MAX WORK TEM, MIN WORK TEMP, SET PRESSURE, MFG NAME.

4. Using the Serial Trace Scan (SERIAL) process, search by a serial number. Select and display the detail of a trace record. Upon return for viewing the detail, page down a couple of pages by pressing <enter>. Capture the serial number on the first line of the pages. Press <PF7> to page back. The serial numbers captured should be displayed in the original order you paged through by (reverse order), i.e. you should see the page before you pressed the PF key.
5. Using the Lot-Batch Trace Scan (LOTBATCH) process, search by a lot-batch number. Select and display the detail of a trace record. Upon return for viewing the detail, page down a couple of pages by pressing <enter>. Capture the lot-batch number on the first line of the pages. Press <PF7> to page back. The lot-batch numbers captured should be displayed in the original order you paged through by (reverse order), i.e. you should see the page before you pressed the PF key.

APPENDIX D

INSTALLATION INSTRUCTIONS AND CHECKLIST

Introduction

Release information:

System Name: NSMS
Release Number: 7.1.0
Release Date: July 2002
Effective Date: Immediately

In case of installation problems, contact the NASA Automated Data Processing (ADP) Consolidation Center (NACC) Technical Services Center (Use following Key Words: SESAAS & NSMS)

Telephone: (256) 544-6673
Email: pam.leak@msfc.nasa.gov
FAX: (256) 544-1836

***** IMPORTANT NOTE *****
All release datasets must be deleted from the transient storage DASD volumes within 1 month of the release date. Failure to delete release datasets could negatively impact NPPS production.

The following datasets are located on the transient storage DASD volumes under the following data sets names:

xxMOV.NSMS.PROD.R710.R0702.PRD
xxMOV.NSMS.PROD.R710.R0702.SRC

Where “xx” is replaced by the appropriate NASA Center designation.
AR – ARC
DF - DFRC
J5 – JSC
LA – LaRC
LE – GRC (Glenn)
MS - MSFC
SS - SSC

Installation Sequence

The sequence in which the installation of this release should occur is provided in the following list. A checklist is provided in Section 10.0 to assist in tracking the installation of this release.

1.0 Backup Existing Data
2.0 Copy Source
3.0 Pre-Predict Data Conversion
4.0 Install Predict
5.0 Catalog Source Code
6.0 Post-Predict Data Conversion
7.0 Load Natural Error Messages
8.0 Perform Release-Specific Procedures
9.0 Local JCL Mods
10.0 Installation Checklist

1. Backup Existing Data

It is advisable to back up all NSMS files and NATURAL software libraries as a precautionary measure prior to installation.

2. Copy Source

2.1 Load Source Code

Did you backup your Natural software libraries?

Load the NSMS source modifications from the dataset xxMOV.NSMS.PROD.R710.R0702.SRC. The source programs were unloaded using the Natural utility NATUNLD. Using NATLOAD, the programs will be loaded to the application library named NSMS, replacing any existing programs of the same name.

It is recommended that you temporarily load the source modifications to an empty library named NSMS. Verify the modules loaded (output from the batch NATLOAD job) against the VDD list of source code modifications. Then using SYSMAIN, MOVE the released source code from the library NSMS to either the test or production libraries. The NSMS library should now be empty, ensuring all released software is now in the test or production library.

If your test or production library is named NSMS, you can load the released source code directly into these libraries, if you choose. Verify the modules loaded

(output from the batch NATLOAD job) against the VDD list of source code modifications.

When installing this release into production, repeat the above procedures. It is not recommended to copy released modules from test to production. Some modules may be missed or object code may accidentally be copied along with source code. Except in the case of Command Processors (not applicable to most SESAAS applications) **cataloged object code should never be copied from one library to another.** This can cause GDA timestamp errors, or worse, can cause production code to update and corrupt test data, or vice versa. Load only source code and then catalog it to generate the proper version of the cataloged Object code.

The source module counts included in this release are listed below:

Natural Source Modules by Type	
GLOBAL DATA AREA	0
LOCAL/PARAM DATA AREA	13
MAPS	16
HELP ROUTINES	2
SUBROUTINES	5
SUBPROGRAMS	0
PROGRAMS	12
COPYCODE	0
TEXT	0
PROCESS	0
MISCELLANEOUS OBJECTS	0
Total:	**48**

2.2 List of Source Code Modifications

The following are the modules added, modified and deleted.

Added Modules

MODULE ID	MODULE NAME	TYPE	CCR#
NSDLS161	Completed Inventory Report	LDA	945
NSMFS161	Completed Inventory Report	MAP	945
NSMFS16F	Completed Inventory Report	MAP	945
NSMHS161	Completed Inventory Report	MAP	945
NSMPS161	Completed Inventory Report	MAP	945
NSPRS161	Completed Inventory Report	PGM	945
NSPTS161	Completed Inventory Report	PGM	945

NSSFS161	Completed Inventory Report	PGM	945
NSMPICFC	Inventory Counts - FFC	MAP	1002
NSDLCAPR	Change Catalog Detail	LDA	1005
NSDLCAS2	Catalog Scan (Prop.Data)	LDA	1005
NSDLCAS3	Catalog Scan (Prop.Data)	LDA	1005
NSDLCAS4	Catalog Scan (Prop.Data)	LDA	1005
NSDLCID2	Catalog Scan (Prop.Data)	LDA	1005
NSMHCAPR	Change Catalog Detail	MAP	1005
NSMHCAS3	Catalog Scan (Prop.Data)	MAP	1005
NSMHCAS5	Catalog Scan (Prop.Data)	MAP	1005
NSMPCAP1	Change Catalog Detail	MAP	1005
NSMPCAS2	Catalog Scan (Prop.Data)	MAP	1005
NSMPCAS3	Catalog Scan (Prop.Data)	MAP	1005
NSMPCAS5	Catalog Scan (Prop.Data)	MAP	1005
NSMPCID3	Catalog Scan (Prop.Data)	MAP	1005
NSPTCAPR	Change Catalog Detail	PGM	1005
NSPTCAS2	Catalog Scan (Prop.Data)	PGM	1005
NSPTCAS3	Catalog Scan (Prop.Data)	PGM	1005
NSPTCAS4	Catalog Scan (Prop.Data)	PGM	1005
NSSRCID2	Catalog Scan (Prop.Data)	SUB	1005
NSSRCID3	Catalog Scan (Prop.Data)	SUB	1005

Changed Modules

MODULE ID	MODULE NAME	TYPE	CCR#
NSMPINIT	Initialization	MAP	
NSDLPNCV	Part Number Conversion	LDA	883
NSDLRCPN	Receipts by Part Number	LDA	883
NSHSPNCV	Helproutine -Part Number Conversion	HLP	883
NSHSRCPN	Helproutine -Receipts by Part Number	HLP	883
NSSRBIN5	Program Stock Trace Data	SUB	883
NSSRPNSP	Part Number Special	SUB	883
NSDLPNCV	Part Number Conversion	LDA	990
NSDLRCPN	Receipts by Part Number	LDA	990
NSDLSCAN	Asset Scan	LDA	990
NSHSPNCV	Helproutine - Part Number Conversion	HLP	990
NSHSRCPN	Helproutine - Receipts by Part Number	HLP	990
NSPTSCAN	Asset Scan	PGM	990
NSSRBIN5	Program Stock Trace Data	SUB	990
NSSRPNSP	Part Number Special	SUB	990
NSDLICBC	Inventory Counts – Build Lot	LDA	1002
NSDLICBL	Inventory Counts – Build Lot	LDA	1002
NSDLICLS	Inv. Counts, Bin Location Summary Rpt	LDA	1002
NSDLICPC	Inventory Counts – Control Rpt	LDA	1002
NSMPICMM	Inventory Counts - Main Menu	MAP	1002
NSMPICFG	Inventory Counts	MAP	1002
NSPRICLS	Inv. Counts, Bin Location Summary Rpt	PGM	1002
NSPRICPC	Inventory Counts – Control Rpt	PGM	1002
NSPTICMM	Inventory Counts - Main Menu	PGM	1002
NSPUICBL	Inventory Counts - Build Lot	PGM	1002
NSSRICBC	Inventory Counts – Build Lot	SUB	1002

Deleted Modules

There are no modules to be deleted in this release.

3.0 Pre-Predict Data Conversion

There is no Pre-Predict data conversion for this release.

4.0 Install Predict

4.1 Data Dictionary Changes

Did you backup your NSMS files?

This release will include the new enhancements for version 7.1.0. Details for changes in this release can be found under paragraph 4.1.3 Physical File Changes or by performing PREDICT reporting on the keyword NSMS-7.1.0.

Use SYSDICBE to load the PREDICT modifications from the dataset xxMOV.NSMS.PROD.R710.R0702.PRD.

The following NSMS DDMs should be generated after the PREDICT load is complete.

NS-ASSET-TRACEABLE
NS-CATALOG

4.1.1 Inventory of Objects

The object types and inventory listed below represent a comprehensive count of the PREDICT object modules for this release.

PREDICT Objects by Type:

Keyword	-	1
Standard Files	-	1
Conceptual Files	-	1
ADABAS Files and Views	-	4

4.1.2 Storage Considerations

The changes represented by this release should not affect storage requirements.

4.1.3 Physical File Changes

Use the ADABAS Utility commands listed below to build the JCL for file changes. The ADADBS control statements can be cut and pasted into the TSO ISPF editor. Call RICK BISHOP (256) 544-5352 with any questions or problems.

Add the following fields:

```
NS-CATALOG—FILE            File # 174
 Ty L Field ID                          F  Length   Occ   D U DB S
 *- - ------------------------------- *- -------- ----- * * -- *
    1 LAST-SYSTEM-SRVC-NAME             A     25.0        D   BS N
    1 MAWP-RATE                         N      6.0            BT N
    1 MAWP-UOM-TEXT                     A      6.0            BU N
    1 CMPNT-SIZE                        N      8.0            BV N
    1 CMPNT-SIZE-UOM-TEXT               A      2.0            BW N
    1 MAX-WRKNG-TEMP                    N      5.0            BX N
    1 MIN-WRKNG-TEMP                    N      5.0            BY N
    1 TEMP-UOM-CODE                     A      1.0            BZ N
    1 REL-PRESSURE-RATE                 N      6.0            CA N
    1 REL-PRESSURE-UOM-TEXT             A      6.0            CB N
```

Using the following commands:

```
//DDKARTE   DD   *
ADADBS NEWFIELD FILE=174
ADADBS FNDEF='01,BS,25,A,NU,DE'
ADADBS FNDEF='01,BT,6,U,NU'
ADADBS FNDEF='01,BU,6,A,NU'
ADADBS FNDEF='01,BV,8,U,NU'
ADADBS FNDEF='01,BW,2,A,NU'
ADADBS FNDEF='01,BX,5,U,NU'
ADADBS FNDEF='01,BY,5,U,NU'
ADADBS FNDEF='01,BZ,1,A,NU'
ADADBS FNDEF='01,CA,6,U,NU'
ADADBS FNDEF='01,CB,6,A,NU'
/*
```

Invert the following superdescriptors:

```
NS-CATALOG—FILE            File # 174
 Ty L Field ID                          F  Length   Occ   D U DB S
 *- - ------------------------------ *- -------- ----- * * -- *
 SP 1 INDEX-CMPNT-SIZE                  A     14.0        D   CC N
 SP 1 INDEX-MAX-WRKNG-TEMP              A     11.0        D   CD N
 SP 1 INDEX-MIN-WRKNG-TEMP              A     11.0        D   CE N
 SP 1 INDEX-REL-PRESSURE-RATE           A     12.0        D   CF N
 SP 1 INDEX-MAWP-RATE                   A     12.0        D   CG N
```

Using the following commands:

```
//DDKARTE   DD  *
ADAINV INVERT FILE=174
ADAINV TEMPSIZE=??,SORTSIZE=??
ADAINV SUPDE='CC=AA(1,6),BV(1,8)'
ADAINV SUPDE='CD=AA(1,6),BX(1,5)'
ADAINV SUPDE='CE=AA(1,6),BY(1,5)'
ADAINV SUPDE='CF=AA(1,6),CA(1,6)'
ADAINV SUPDE='CG=AA(1,6),BT(1,6)'
/*
```

Invert the following descriptors:

```
NS-ASSET-TRACEABLE—FILE    File # 173
 Ty L Field ID                          F  Length   Occ   D U DB S
 *- - ------------------------------ *- -------- ----- * * -- *
    1 LOT-BATCH                         A     30.0        D   AB N
    1 SERIAL-NUMBER                     A     24.0        D   AE N
```

Using the following commands:

```
//DDKARTE   DD  *
ADAINV INVERT FILE=173
ADAINV TEMPSIZE=??,SORTSIZE=??
ADAINV FIELD='AB'
ADAINV FIELD='AE'
/*
```

5.0 Catalog Source Code

Run a batch job to catalog (CATALL) all modules in the NSMS or other named library. It **IS NOT NECESSARY** to catalog the Global Data Area. The NASA Batch standard parameters should be used for the compile.

After all objects are compiled, the NSMS application will run under the NASA On-line standard parameters.

6.0 Post-Predict Data Conversion

There is no Post-Predict data conversion for this release.

7.0 Load Natural Error Messages

There are no Natural error messages for this release.

8.0 Perform Release-Specific Procedures

There are no release specific procedures for this release.

9.0 Local JCL Mods

There are no local JCL mods for this release.

10.0 Installation Checklist

1.0 Backup Existing Data
2.1 Load Source Code
4.0 Install Predict
5.0 Catalog Source Code